

FIG. 1

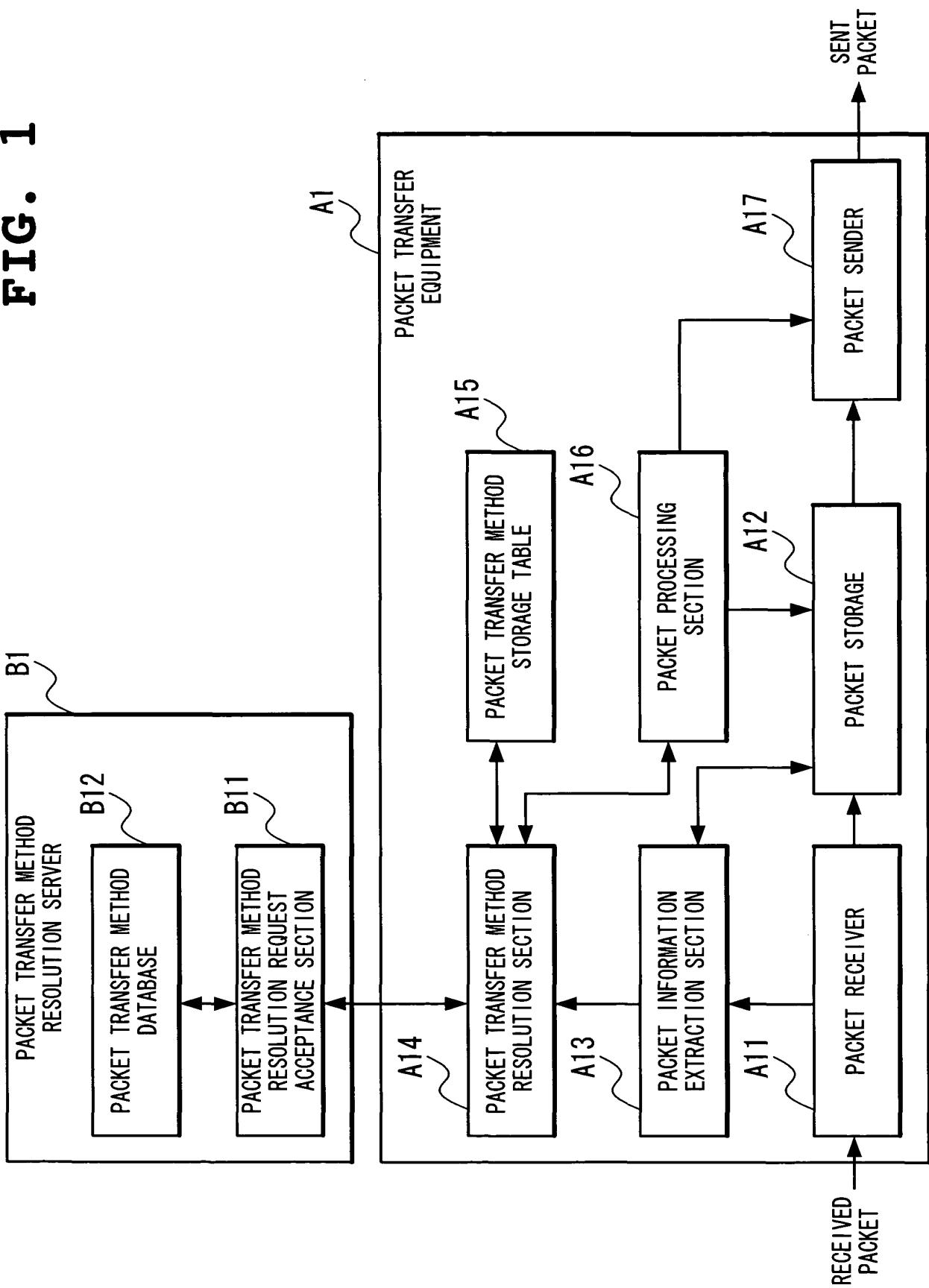
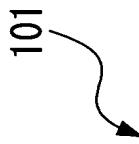


FIG. 2

101



INPUT PACKET INFORMATION			TRANSFER METHOD		
DESTINATION IP ADDRESS	DESTINATION PORT No.	VLAN-ID	DESTINATION IP ADDRESS	DESTINATION PORT No.	DESTINATION MAC ADDRESS
10.1.1.1	80,8080	100	10.2.2.2	—	0x00:ab:da:32:45:67
20.2.2.2	7070	200	—	8080	0x00:da:cf:12:34:56
...

3
FIG

102

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PACKET TRANSFER METHOD
RESOLUTION SERVER, DNS SERVER,
NETWORK SYSTEM AND PROGRAM
Inventor(s): Norihito FUJITA, et al.
DOCKET NO.: 040405-0364

FIG. 4

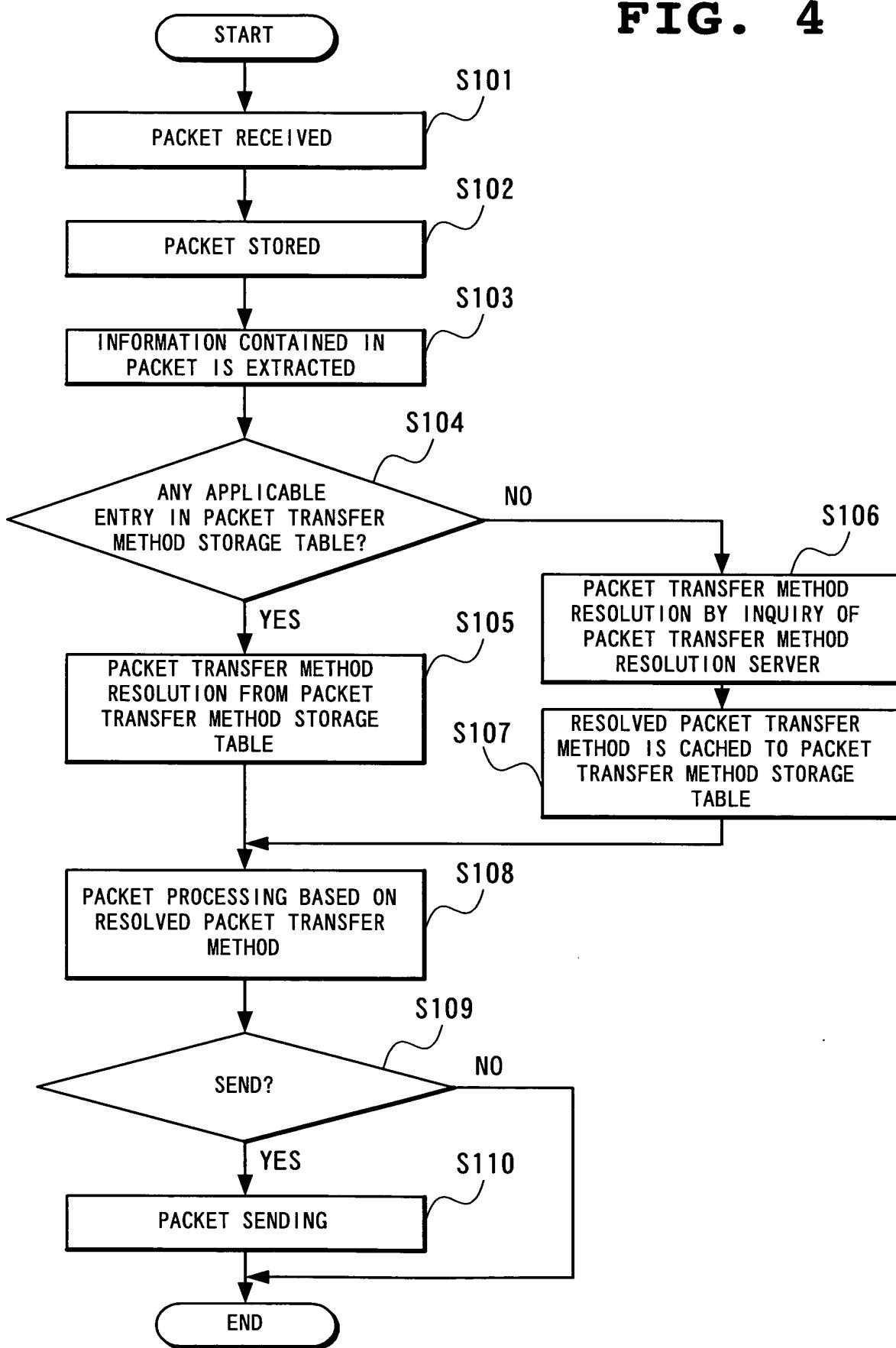


FIG. 5

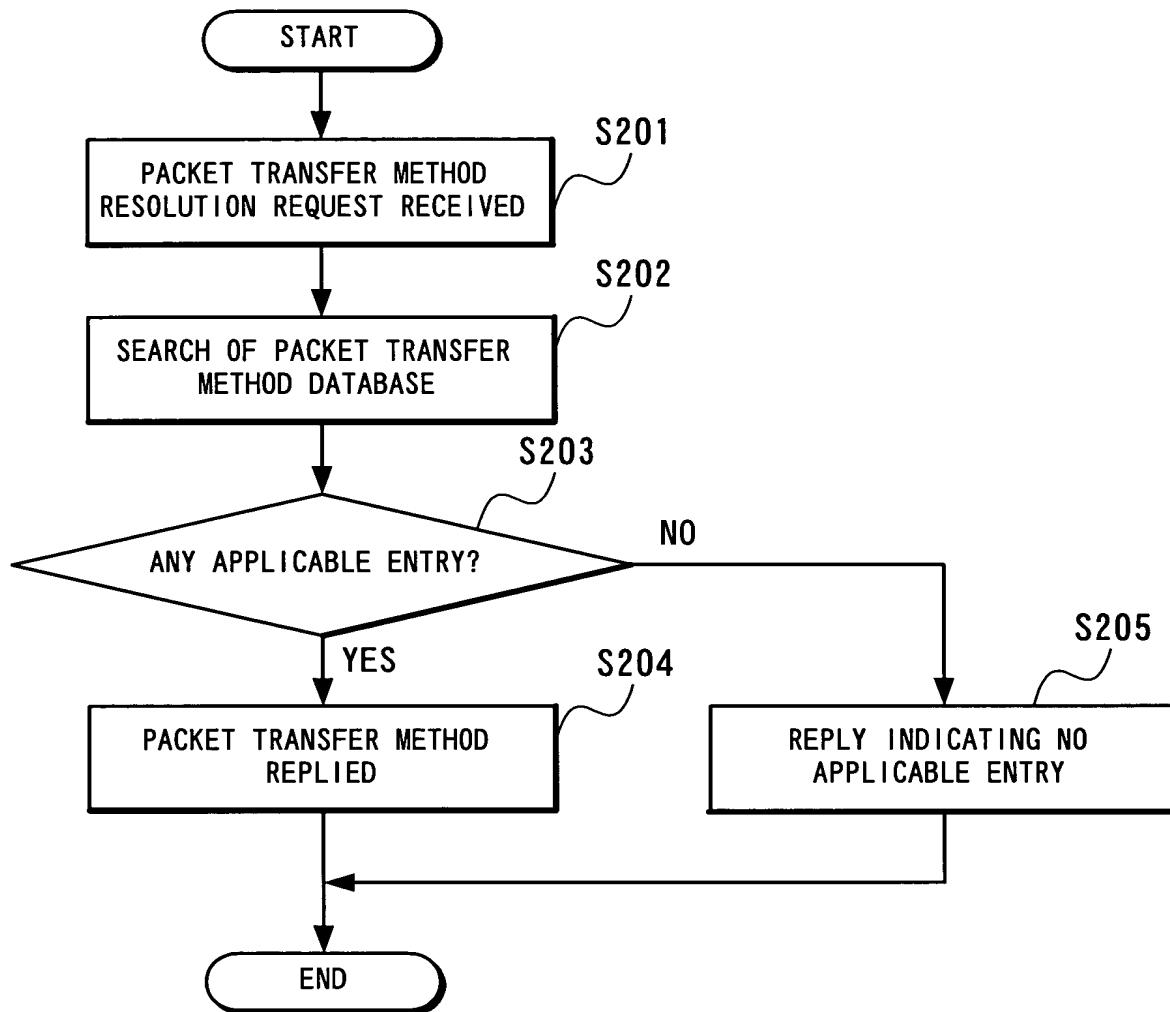
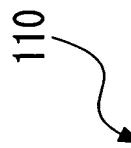


FIG 6

109

RECEIVE PORT	EXTRACTED PACKET INFORMATION
80	URL , COOKIE
OTHER THAN 80	DESTINATION IP ADDRESS, VLAN-ID

FIG. 7



INPUT PACKET INFORMATION			TRANSFER METHOD	
URL	DESTINATION IP ADDRESS	VLAN-ID	SOURCE IP ADDRESS	DESTINATION MAC ADDRESS
www.aaa.com/*	—	—	50.1.1.1	0x00:12:34:56:78:9a
www.bbb.net/*	—	100	50.1.1.1	0x00:bc:de:f0:12:34
—	20.30.40.50	200	60.1.1.1	0x00:98:76:54:32:10
...

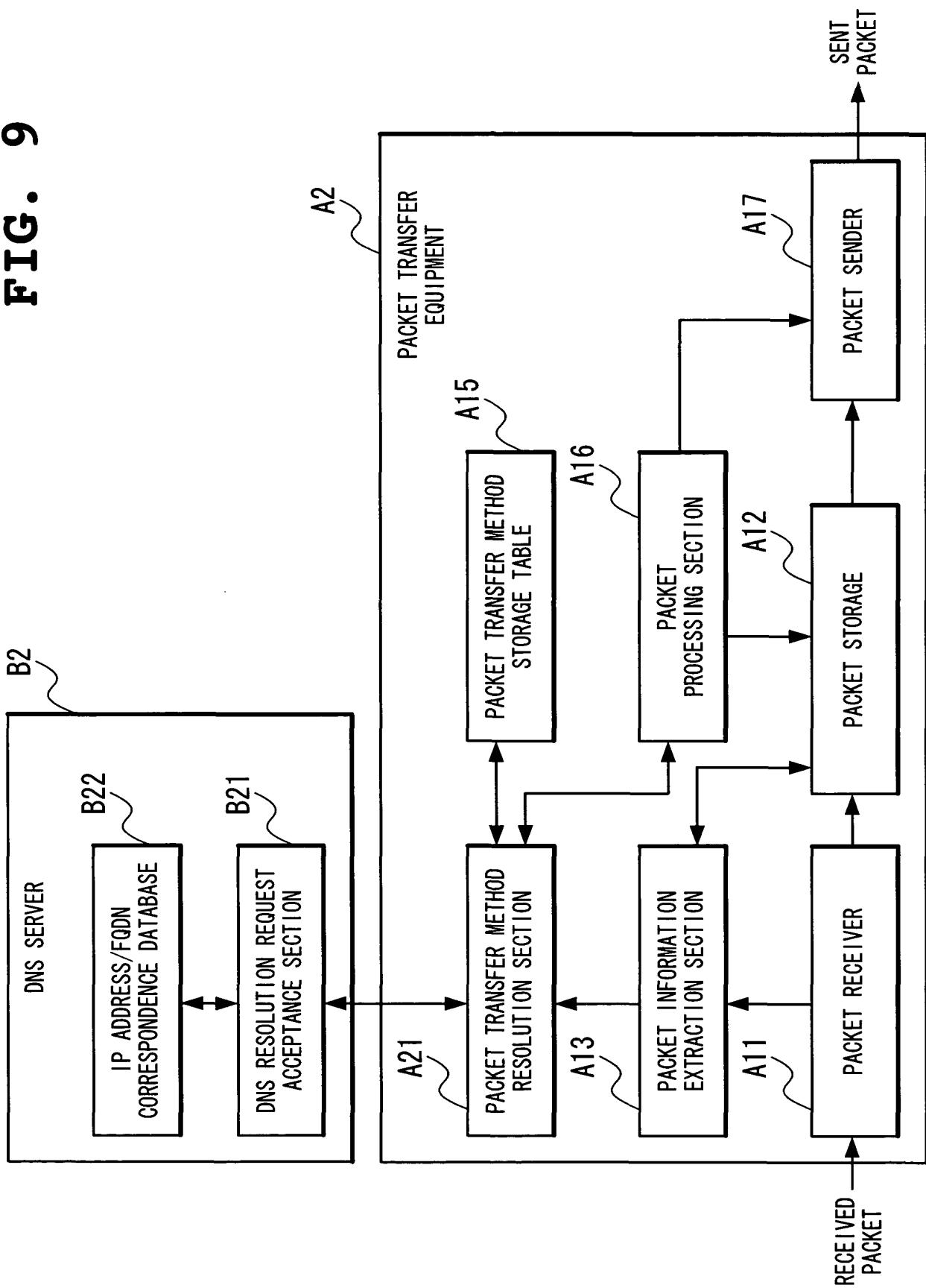
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11

INPUT PACKET INFORMATION

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FIG. 9



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FIG. 10

103

FQDN	IP ADDRESS
dstport-7070. dstip-20-1-1-1. wlan-100. resolve.org	192.168.1.1
dstport-7070. dstip-30-1-1-1. wlan-200. resolve.org	192.168.2.2
...	...

104

IP ADDRESS	FQDN
192.168.1.1	dstip-20-2-2-2. dstmac-00-12-34-56-78-0a. wlan-200. resolve.org
192.168.2.2	srcip-30-3-3-3. dstport-8080. dstmac-00-bc-de-f0-12-34. resolve.org
...	...

FIG. 11

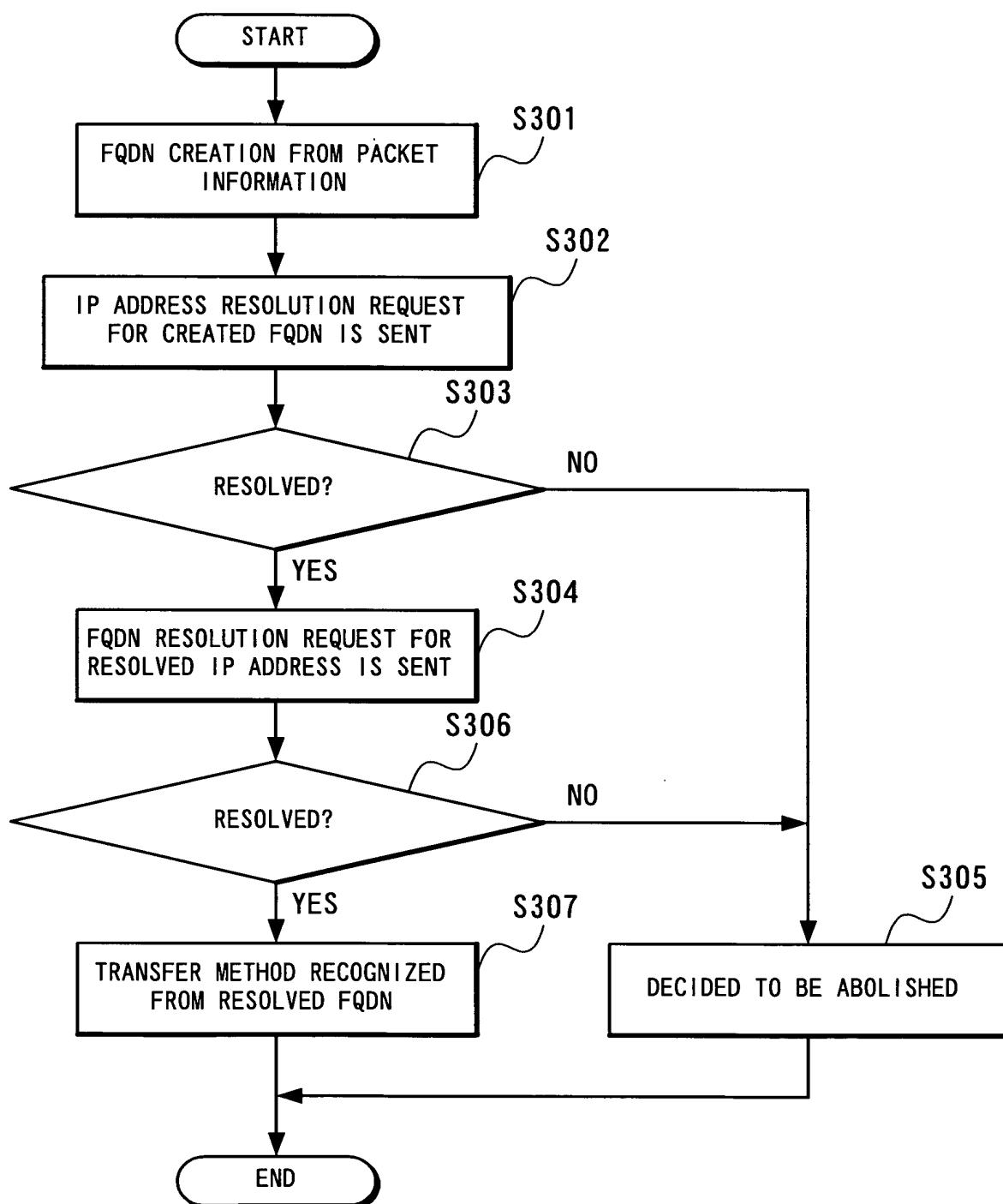


FIG. 12

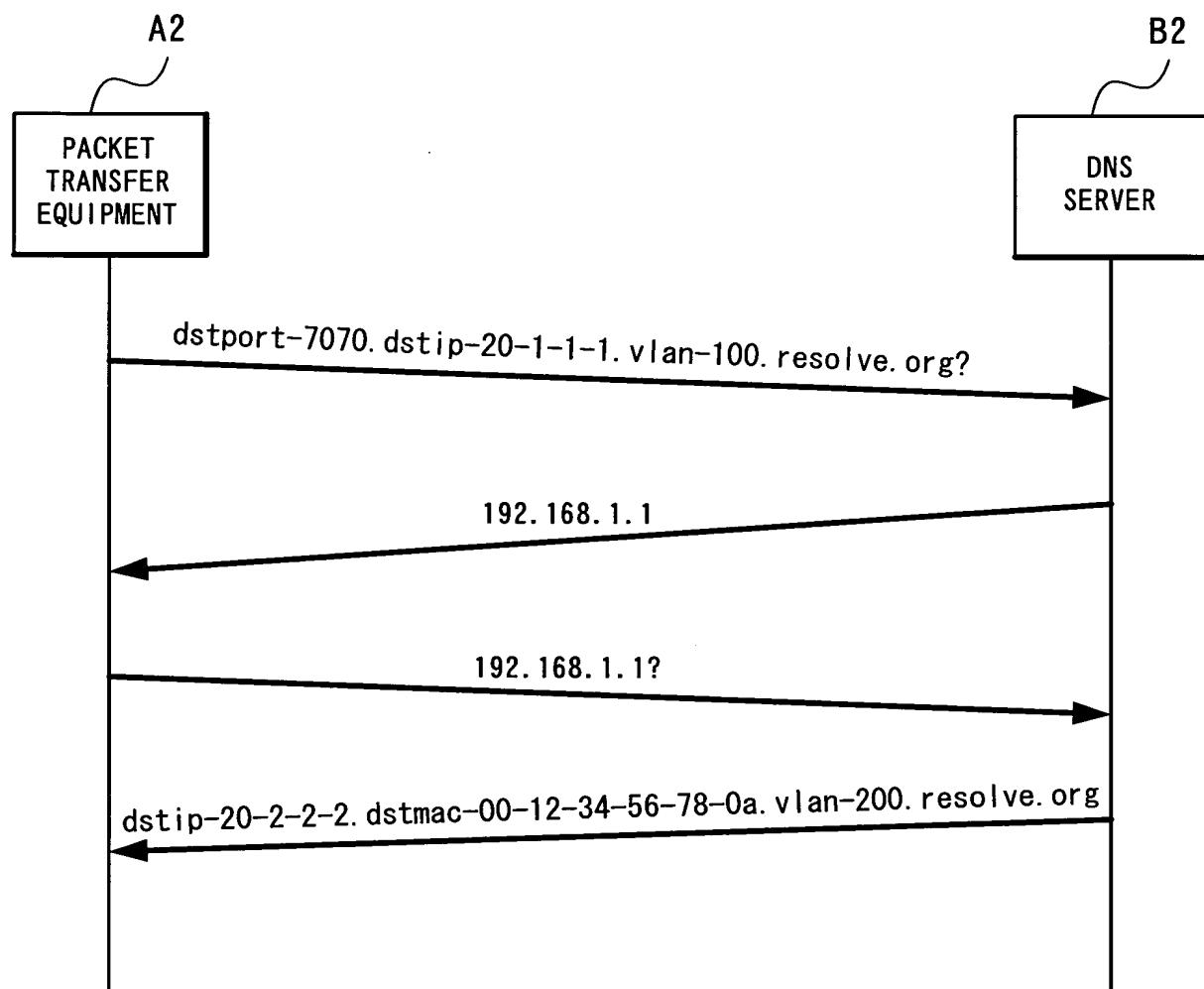


FIG. 13

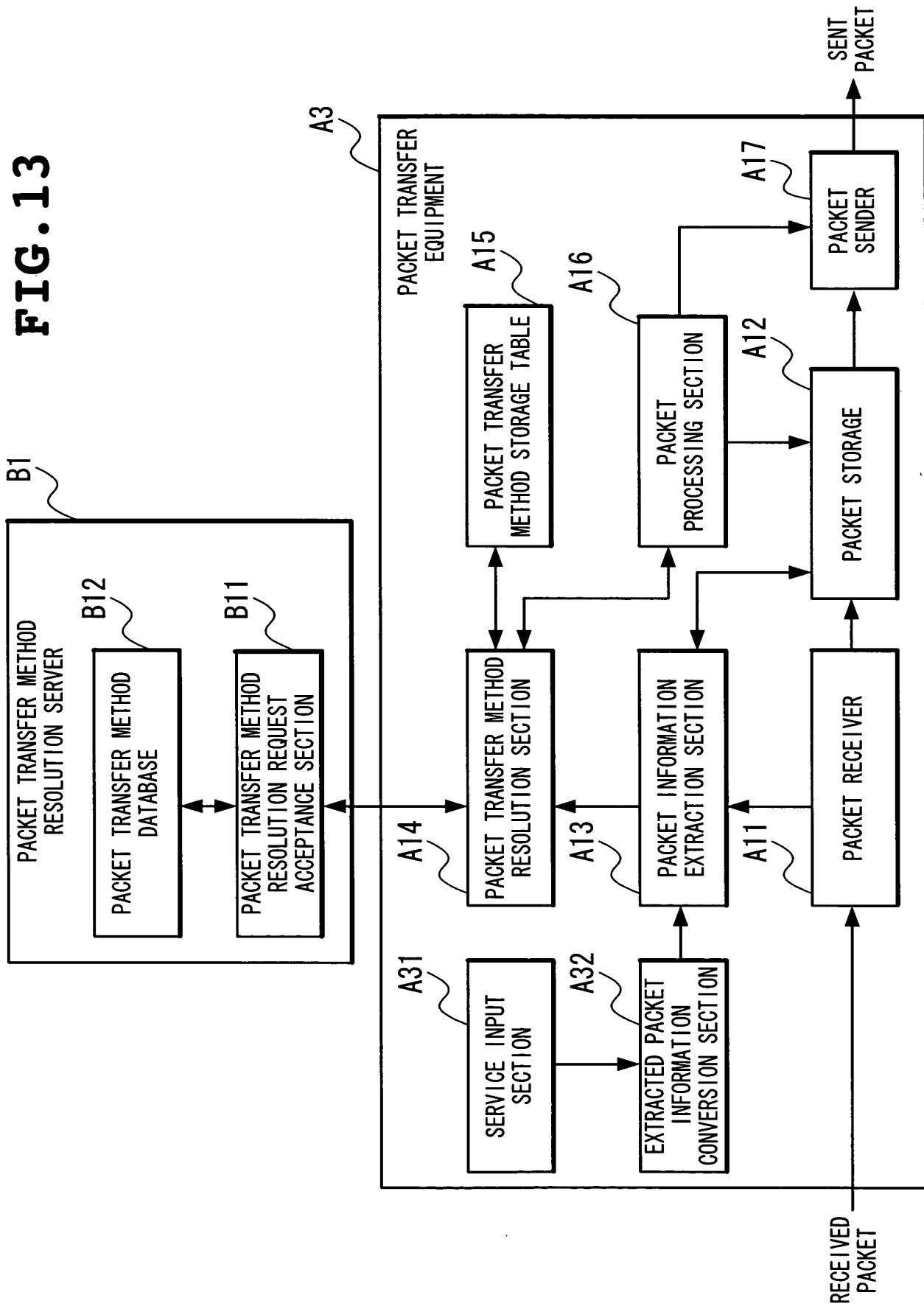


FIG. 14

105

SERVICE	EXTRACTED PACKET INFORMATION
LAYER 2 SWITCH SERVICE	DESTINATION MAC ADDRESS, VLAN-ID
ROUTER SERVICE	DESTINATION IP ADDRESS
LAYER 4 SWITCH SERVICE	DESTINATION TCP/UDP PORT No., DESTINATION IP ADDRESS
LAYER 7 SWITCH SERVICE	URL, COOKIE, SOURCE IP ADDRESS
• • •	• • •

FIG. 15

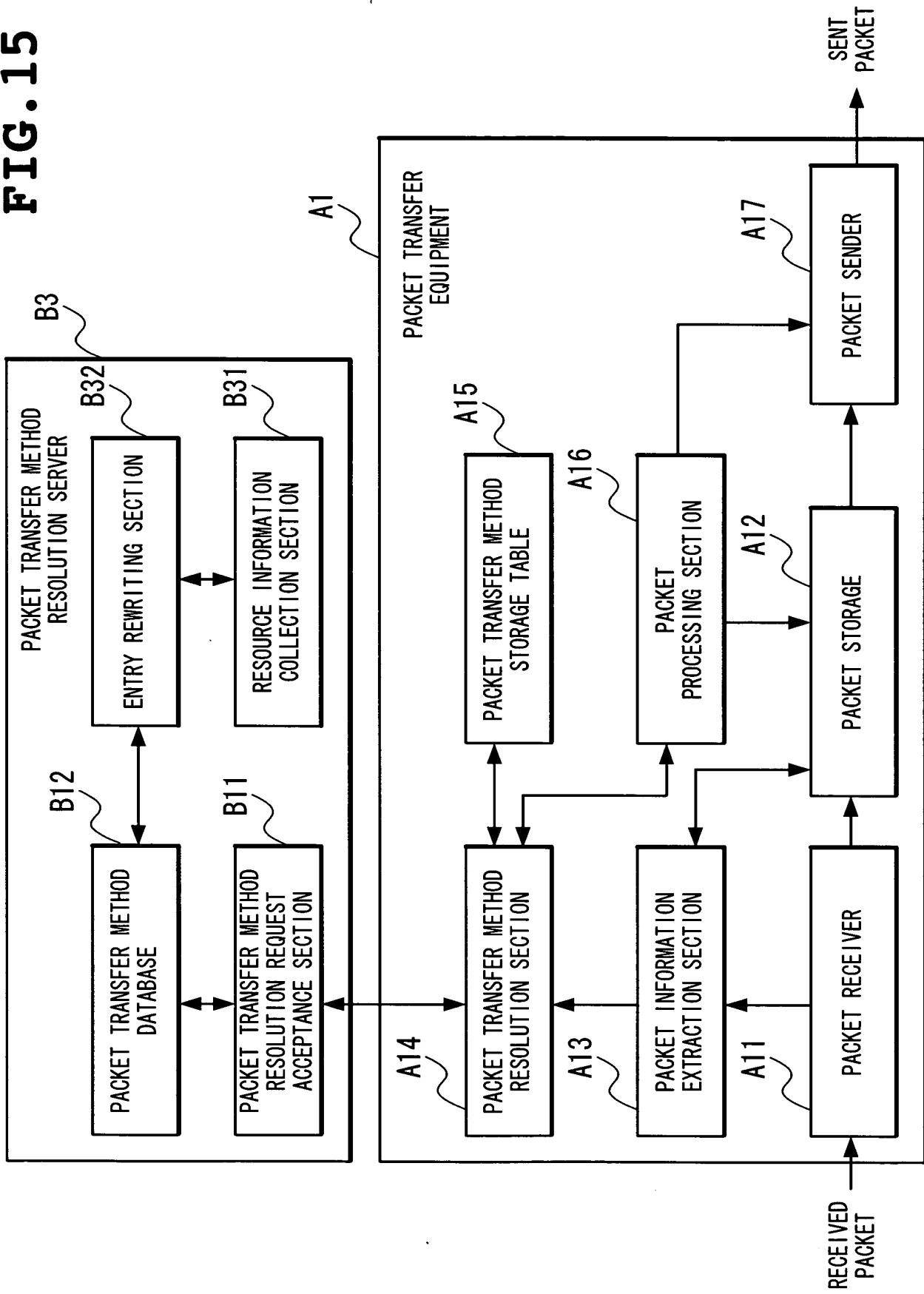
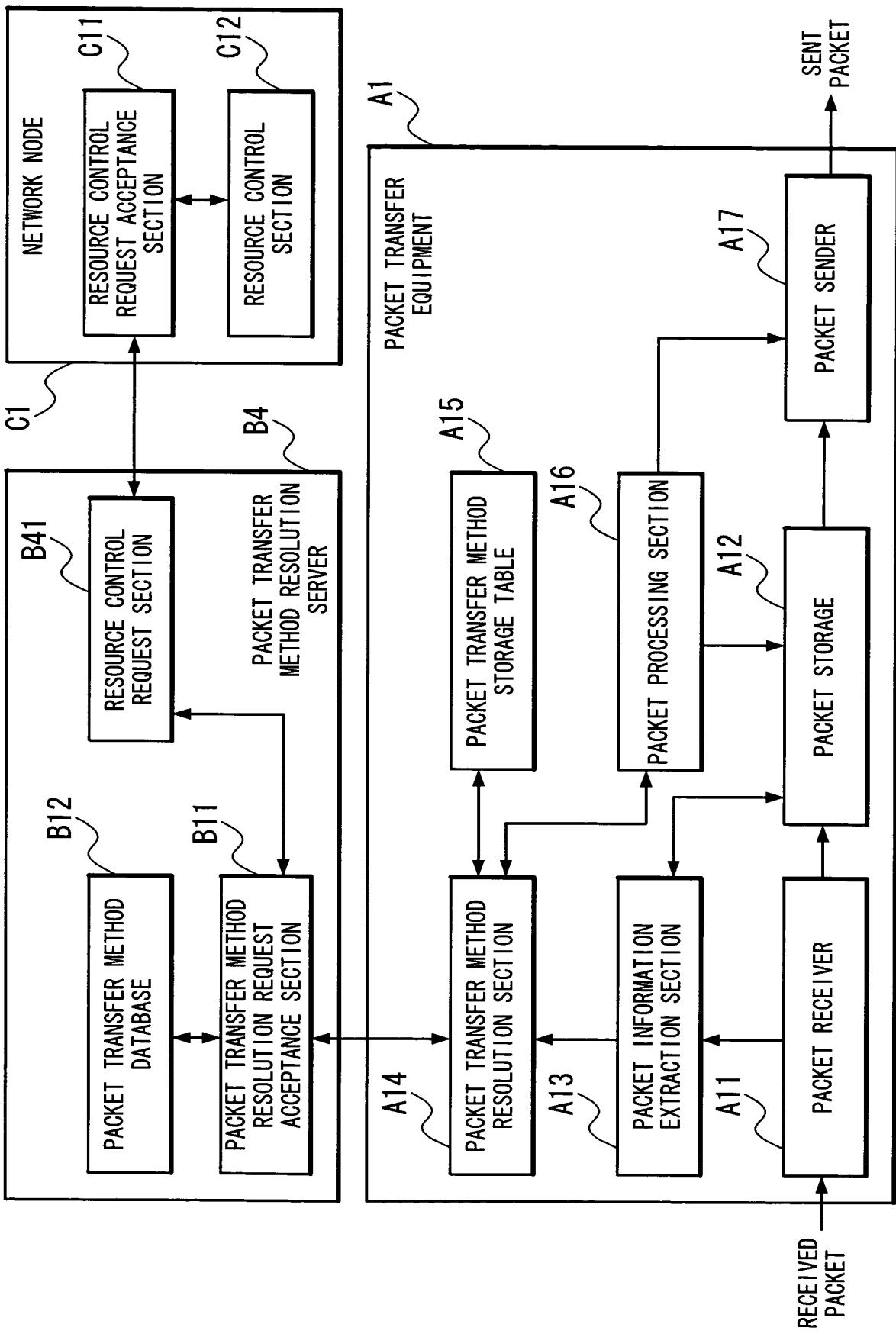


FIG. 16

106

INPUT PACKET INFORMATION		TRANSFER METHOD			
URL	RESOURCE REQUEST	URL	DESTINATION IP ADDRESS	DESTINATION MAC ADDRESS	user-priority
www.movie.org/aaa_fmt	IMPORTANCE PLACED ON WIDE DOWNSTREAM BAND	—	20.2.2.2	0x00:12:34:56:78:9a	7
www.text.net/bbb.txt	IMPORTANCE PLACED ON LOW DELAY	www.text.net/ccc.txt	—	0x00:bc:de:f0:12:34	5
...

FIG. 17



18 FIG.

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PACKET TRANSFER METHOD
RESOLUTION SERVER, DNS SERVER,
NETWORK SYSTEM AND PROGRAM**

Inventor(s): Norihito FUJITA, et al.
DOCKET NO.: 040405-0364

FIG 19

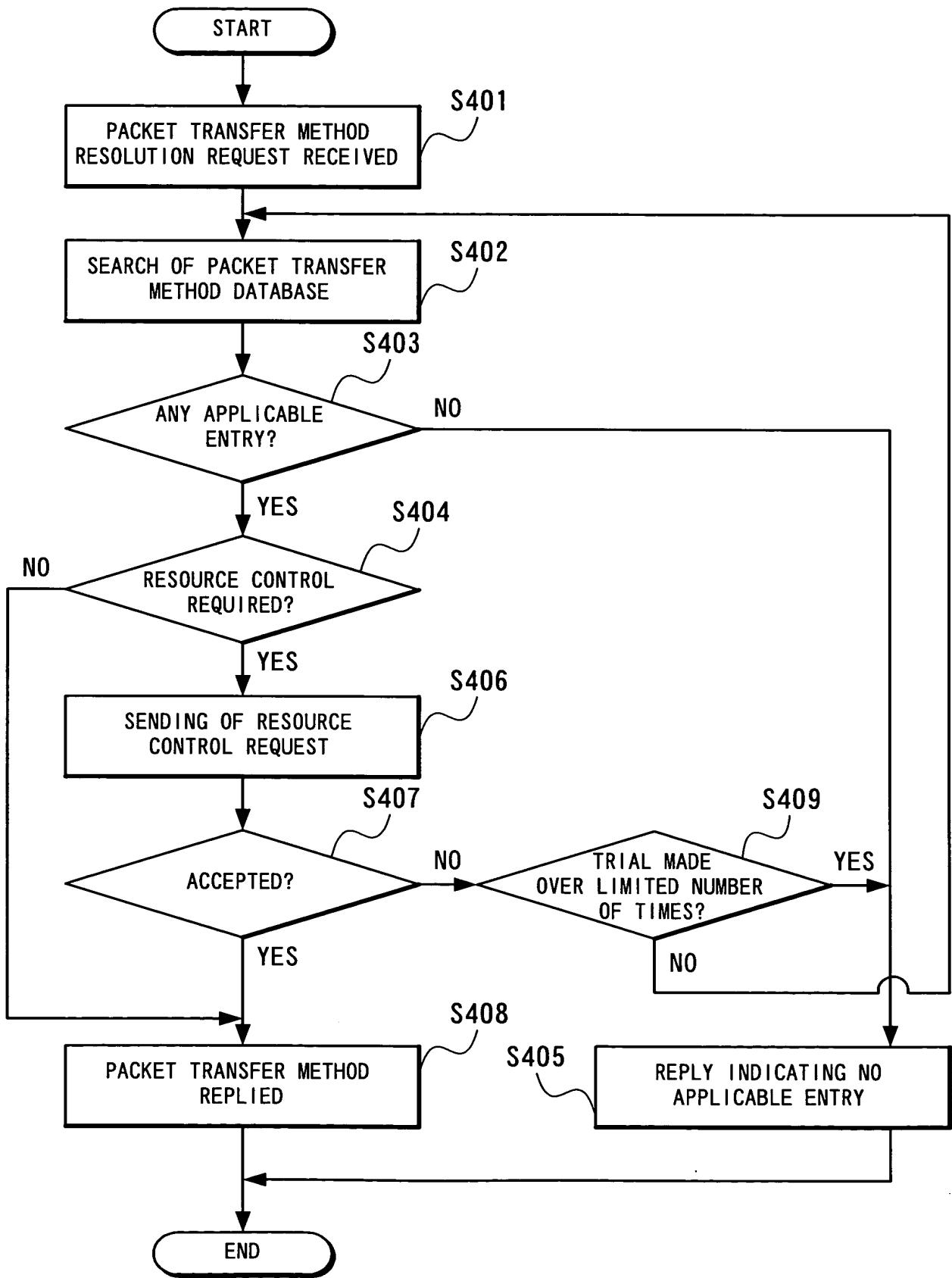


FIG. 20

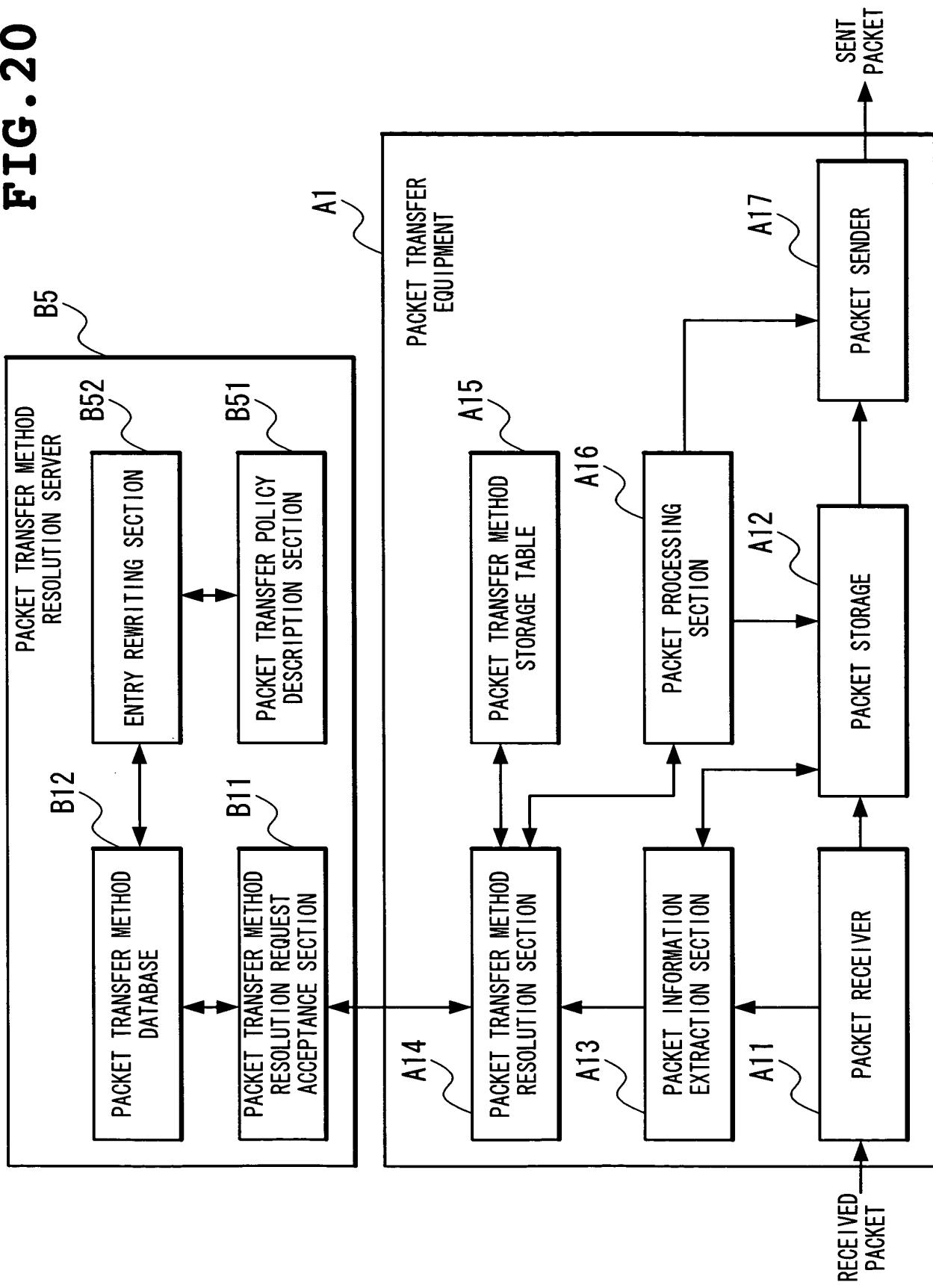
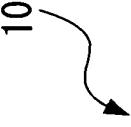


FIG. 21

108



INPUT PACKET INFORMATION		TRANSFER METHOD		PACKET TRANSFER POLICY
URL	DESTINATION PORT No.	URL	DESTINATION IP ADDRESS	DESTINATION VLAN-ID
www.portal.com	80	www.biglobe.net	20.1.1.1	100 TRANSFER WITH PRIORITY UP TO 1000 TIMES
www.abc.org	8080	www.xyz.com	30.1.1.1	— TRANSFER AT PROBABILITY OF 60%
...

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DOCKET NO.: 040405-0364

FIG. 22

112

INPUT PACKET INFORMATION		TRANSFER METHOD		
URL	DESTINATION PORT No.	URL	DESTINATION IP ADDRESS	DESTINATION VLAN-ID
www. biglobe. net	80	—	20. 1. 1. 1	100
www. portal. com	—	—	—	100
www. xyz. com	8080	—	30. 1. 1. 1	—
www. abc. org	—	—	—	200
...
...

FIG. 23 (PRIOR ART)

TYPE OF INFORMATION CONTAINED IN PACKET	1 TYPE (DETERMINED FOR EACH PACKET)	SEVERAL TYPES (DETERMINED FOR EACH PACKET)
1 TYPE (FIXED)	A	E
1 TYPE (DETERMINED FOR EACH PACKET)	B	F
SEVERAL TYPES (FIXED)	C	G
SEVERAL TYPES (DETERMINED FOR EACH PACKET)	D	H
		M
		J
		K
		O
		L
		P